

## **ABSTRACT OF THE DISCLOSURE**

A system for reducing electromagnetic interference between two or more co-located antennas is described herein. In one embodiment, the system includes a first antenna for transmitting a first signal within a first frequency band, and a second antenna for operating within a second frequency band during transmission of the first signal. The first and second frequency bands may be substantially identical, or may occupy overlapping or nearby channels within the radio frequency spectrum. The system also includes an apparatus. In one embodiment, the apparatus is positioned proximate to the second antenna for intercepting the electromagnetic energy radiated from the first antenna during transmission of the first signal. In other embodiments, the apparatus may be positioned proximate to the first antenna for intercepting the electromagnetic energy radiated from the second antenna during transmission of a second signal. In either embodiment, the apparatus is able to reduce electromagnetic interference between the first and second antennas by scattering (or redirecting) radiated energy away from either the first antenna or the second antenna.